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CLAIMS

- 1. An isolated pr tein having a s rine/thr nine kinase domain, a DFKSRN or DLKSKN sequence in subdomain VIB and/r a GTKRYM sequence in subdomain VIII.
- 5 2. A protein according to claim 1, which additionally comprises an ATP-binding sequence that is Gly-Xaa-Gly-Xaa-Xaa-Gly in subdomain I, and a Lys residue in subdomain II.
 - 3. An isolated protein having a serine/threonine kinase domain which has more than 50% identity to the kinase
- domain of any of the amino-acid sequences identified herein as SEQ ID. Nos. 2, 4, 6, 8, 10, 12, 14, 16 and 18.
 - 4. A protein according to claim 3, wherein the identity is more than 60%.
 - 5. A protein according to any preceding claim, having serine/threonine kinase activity.
 - 6. An isolated protein having all or part of any of the amino-acid sequences identified herein as SEQ. ID Nos. 2, 4, 6, 8, 10, 12, 14, 16 and 18, and activin receptor type I functionality.
- 7. An isolated protein having an amino-acid sequence corresponding to part or all of the amino-acid sequence of an activin type I receptor, and wherein the protein has at least one of the following characteristics:-
 - (i) serine/threonine kinase activity;
- 25 (ii) activin-binding activity; and
 - (iii) activin type II receptor interaction.
 - 8. An isolated protein having all or part of any of the amino-acid sequences identified herein as SEQ. ID Nos. 2, 4, 6, 8, 10, 12, 14, 16 and 18, and TGF-B-type I receptor functionality.
 - 9. An isolated protein having an amino-acid sequence corresponding to part or all of the amino-acid sequence of a TGF-B-type I receptor, and wherein the protein has at least one of the following characteristics:
- 35 (i) serine/threonine kinase activity;
 - (ii) TGF-8-binding activity; and
 - (iii) TGF-B-type II r ceptor interaction.

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- 10. A protein acc rding to any f claims 1 to 5, having all r part f the amino-acid sequ nce identified herein as SEQ ID No. 2.
- 11. A protein according to any of claims 1 to 7, having all or part of the amino-acid sequence identified herein as SEQ ID No. 4.
 - 12. A protein according to any of claims 1 to 5, having serine/threonine kinase activity and all or part of the amino-acid sequence identified herein as SEQ ID No. 6.
- 13. A protein according to any of claims 1 to 7, having all or part of the amino-acid sequence identified herein as SEQ ID No. 8.
 - 14. A protein according to any of claims 1 to 5, 8 and 9, having all or part of the amino-acid sequence identified herein as SEQ ID No. 10.
 - 15. A protein according to any of claims 1 to 5, having all or part of the amino-acid sequence identified herein as SEQ ID No. 12.
- 16. A protein according to any of claims 1 to 5, having all or part of the amino-acid sequence identified herein as SEQ ID No. 14.
 - 17. A protein according to any of claims 1 to 7, having all or part of the amino-acid sequence identified herein as SEQ ID No. 16.
- 25 18. A protein according to any of claims 1 to 5, having all or part of the amino-acid sequence identified herein as SEQ ID No. 18.
 - 19. A protein according to any preceding claim, that is a soluble receptor.
- 30 20. An antibody which binds specifically to a protein as defined in any of claims 1 to 19 and not to at least one other such protein.
 - 21. An isolated nucleic acid molecule which codes for, or is complementary to a nucleic acid molecule which codes for, a prot in as defin d in any of claims 1 to 19.
 - 22. A recombinant nucleic acid molecule comprising at least two heterologous sequences, one of which codes for,

- or is compl mentary t a nucl ic acid molecul which codes for, a protein as d fined in any f claims 1 to 19.
- 23. A molecul acc rding to claim 21 r claim 22, wherein the prot in is a TGF-8-type I rec ptor.
- 5 24. A molecule according to claim 21 or claim 22, wherein the protein is an activin receptor.
 - 25. A DNA or RNA/mRNA molecule according to any of claims 21 to 24.
- 26. A molecule according to any of claims 20 to 24, which additionally comprises, operably associated with the coding sequence, a sequence adapted to allow expression of the protein.
 - 27. A host comprising a molecule according to claim 26, which is capable of expressing the protein.
- 15 28. A host according to claim 27, which comprises PAE cells.
 - 29. A host according to claim 27 or claim 28, transfected with the Chim A receptor plasmid.
- 30. A product according to any preceding claim, for therapeutic or diagnostic use.
 - 31. Use of a product according to any of claims 1 to 29, for the manufacture of a medicament for use in treating a condition associated with TGF activity.